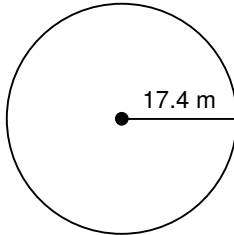


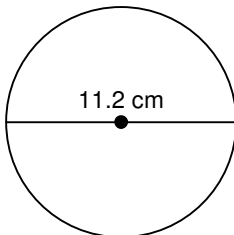
Circle Homework 1**Multiple Choice**

Identify the letter of the choice that best completes the statement or answers the question.

- _____ 1. A circle has diameter 22 cm. What is the radius?
a. 22 cm b. 88 cm c. 11 cm d. 44 cm
- _____ 2. What is the diameter of this circle?



- a. 8.7 m b. 52.2 m c. 5.8 m d. 34.8 m
- _____ 3. The radius of a circular lid is 3.7 cm. Calculate the circumference.
Use $\pi = 3.14$ and give the answer to the nearest millimetre.
a. 5.8 cm b. 7.4 cm c. 11.6 cm d. 23.2 cm
- _____ 4. The circumference of a circle is 17 cm. Calculate the radius.
Use $\pi = 3.14$ and give the answer to the nearest millimetre.
a. 8.5 cm b. 5.4 cm c. 2.3 cm d. 2.7 cm
- _____ 5. Calculate the circumference of this circle.
Use $\pi = 3.14$ and give the answer to the nearest millimetre.



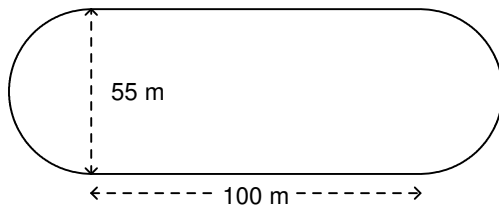
- a. 5.6 cm b. 17.6 cm c. 35.2 cm d. 33.6 cm

Name: _____

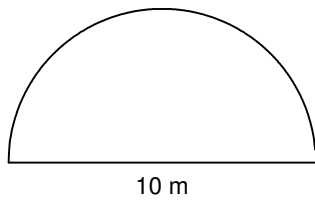
ID: A

Problem

6. The 2 sides of this running track are in the shape of a semicircle.
Find the distance around the track.
Use $\pi = 3.14$ and round your answer to the nearest metre. Show your work.



7. A semi-circular pond has diameter 10 m. Calculate the perimeter of the pond.
Round the answer to the nearest tenth. Show your work.



Circle Homework 1

Answer Section

MULTIPLE CHOICE

- | | | |
|-----------|---------------------------------|------------------------------------|
| 1. ANS: C | DIF: Easy | REF: 6.1 Investigating Circles |
| LOC: 8m40 | TOP: Geometry and Spatial Sense | KEY: Knowledge and Understanding |
| 2. ANS: D | DIF: Easy | REF: 6.1 Investigating Circles |
| LOC: 8m40 | TOP: Geometry and Spatial Sense | KEY: Knowledge and Understanding |
| 3. ANS: D | DIF: Moderate | REF: 6.2 Circumference of a Circle |
| LOC: 8m35 | TOP: Measurement | KEY: Knowledge and Understanding |
| 4. ANS: D | DIF: Moderate | REF: 6.2 Circumference of a Circle |
| LOC: 8m35 | TOP: Measurement | KEY: Knowledge and Understanding |
| 5. ANS: C | DIF: Moderate | REF: 6.2 Circumference of a Circle |
| LOC: 8m35 | TOP: Measurement | KEY: Knowledge and Understanding |

PROBLEM

6. ANS:
 Methods may vary. Sample:
 Curved distance: $C = \pi d$
 $= 3.14 \times 55 \text{ m}$
 $\approx 173 \text{ m}$
 Total distance: $173 \text{ m} + 2 \times 100 \text{ m} = 373 \text{ m}$
- DIF: Difficult REF: 6.2 Circumference of a Circle LOC: 8m36
 TOP: Measurement KEY: Communication
7. ANS:
 Methods may vary. Sample:
 Circumference of circle: $C = \pi d$
 Perimeter of semicircle: $\pi d \times \frac{1}{2} = \pi \times 10 \text{ m} \times \frac{1}{2}$
 $\approx 15.7 \text{ m}$
 Perimeter of pond: $10 \text{ m} + 15.7 \text{ m} = 25.7 \text{ m}$
- DIF: Difficult REF: 6.2 Circumference of a Circle LOC: 8m36
 TOP: Measurement KEY: Communication